Appl. No. : 09/846,777
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AMENDMENTS TO THE CLAIMS

- 1. (Currently amended) A cast polymer membrane mesh, the membrane mesh comprising a first surface having first surface pores, a second surface having second surface pores, and a <u>coagulated</u> support structure between the first surface and the second surface, the <u>coagulated</u> support structure having a reticular network of flow channels connecting the pores of the first surface with the pores of the second surface, wherein the pores of the first surface have an average pore diameter of greater than about 30 µm, and wherein the pores of the second surface have an average pore diameter of greater than about 30 µm.
- 2. (Previously presented) The membrane of Claim 1, wherein the average pore diameter of the pores of the first surface is greater than about $60 \mu m$.
- 3. (Previously presented) The membrane of Claim 1, wherein the average pore diameter of the pores of the first surface is from about 50 μ m to about 200 μ m.
- 4. (Previously presented) The membrane of Claim 3, wherein the average pore diameter of the pores of the first surface is from about $60 \mu m$ to about $150 \mu m$.
- 5. (Previously presented) The membrane of Claim 4, wherein the average pore diameter of the pores of the first surface is from about 70 μ m to about 100 μ m.
- 6. (Original) The membrane of Claim 1, wherein the membrane possesses a bubble point of less than about 1 psi.
- 7. (Original) The membrane of Claim 1, wherein the membrane possesses a water flow rate of greater than about 30,000 ml/min for a 90 mm diameter disc of the membrane at a pressure of 10 psi.
- 8. (Original) The membrane of Claim 1, wherein the membrane has a thickness greater than about 50 μm .
- 9. (Previously presented)The membrane of Claim 1, wherein the membrane has a thickness of from about 50 μm to about 500 μm .
- 10. (Previously presented)The membrane of Claim 9, wherein the membrane has a thickness of from about 75 μm to about 200 μm .
- 11. (Previously presented) The membrane of Claim 10, wherein the membrane has a thickness of from about 90 μ m to about 150 μ m.
- 12. (Original) The membrane of Claim 1, wherein the polymer comprises a sulfone polymer.

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13. (Original) The membrane of Claim 12, wherein the sulfone polymer is selected from the group consisting of polyethersulfone, polyarylsulfone, polysulfone, and mixtures thereof.

- 14. (Original) The membrane of Claim 1, wherein the polymer is selected from the group consisting of polyvinylidene fluoride, acrylic copolymer, polyolefin, polyester, polytetrafluoroethylene, polyurethane, polycarbonate, poly(tetrafluoroethylene-co-ethylene), polyamide, polystyrene, and mixtures thereof.
- 15. (Previously presented) The membrane of Claim 14, wherein the polyolefin is selected from the group consisting of polyethylene and polypropylene.
- 16. (Original) The membrane of Claim 1, further comprising a hydrophilic component.
- 17. (Previously presented) The membrane of Claim 16, wherein the hydrophilic component is selected from the group consisting of polyvinyl pyrrolidone, polyethylene glycol, polyvinylacetate and mixtures thereof.
- 18. (Currently amended) The membrane of Claim 16, having a weight ratio of polymer to hydrophilic component of from about 1:20 to about 20:1.
- 19. (Previously presented) The membrane of Claim 18, wherein the weight ratio is from about 1:10 to about 10:1.

20-68. (Canceled)

- 69. (Currently amended) The membrane of Claim $\frac{1}{2}$, wherein the average pore diameter of the pores of the second surface is greater than about 60 μ m.
- 70. (Currently amended) The membrane of Claim -1 2, wherein the average pore diameter of the pores of the second surface is from about 50 μ m to about 200 μ m.
- 71. (Currently amended) The membrane of Claim $\frac{1}{2}$, wherein the average pore diameter of the pores of the second surface is from about 60 μ m to about 150 μ m.
- 72. (Currently amended) The membrane of Claim $\frac{1}{2}$, wherein the average pore diameter of the pores of the second surface is from about 70 μ m to about 100 μ m.